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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
Final OU 2 Subsurface IM/IRA Implementation and Operation Plan
Soil Vapor Extraction Pilot Test

DOCUMENT MODIFICATION REQUEST (DMR)

Refer to 1-A01-PPG-001 for Processing Instructions.
Print or **Type** All Information (Except Signatures)

1. Date 8/18/94

25. DMR. No. 94-DMR- ERM-0106 lmc 8/31/94

2. Existing Document Number/Revision ~~RFP~~/ER-WP-OU2.5/Rev. 2 RFETS lmc 9/9/94

3. New Document Number or Document Number if it is to be changed with this Revision N/A

4. Originator's Name/Phone/Page/Location William Fronczak/796-4611/NA/WCFS Denver

5. Document Title Rev. 2, Final OU2 IM/IRA Implementation and Operation Plan Soil Vapor Extraction Pilot Test

6. Document Type ❑ Procedure ❑ Other IOP

7. Document Modification Type (Check only one) ❑ New ❑ Revision ❑ Intent Change ☒ Nonintent Change ❑ Editorial Correction ❑ Cancellation

8. Item	9. Page	10. Step	11. Proposed Modifications
1.	D-16		a. Change measurement frequency to (1/4 hours) on all parameters except HC. b. Change HC measurment frequency to (1/8 hours). c. Add HC sample to be taken at Deep APM Probe and Shallow APM Probe.
2.	D-17		a. Change measurement frequency to (1/4 hours) on all parameters.
3.	D-18		a. Change measurement frequency to (1/4 hours) on all parameters.

12. Justification (Reason for Modification, EJO#, TP#, etc.)

Measurement frequencies and HC sample totals were changed to reflect previous pilot tests.

If modification is for a new procedure or a revision, list concurring disciplines in Block 13, and enter N/A in Blocks 14 and 15. If modification is for any type of change or a cancellation, organizations are listed in Block 13, then Concurror prints, and signs in Block 14, and dates in Block 15.

13. Organization	14. Print and Sign (if applicable)	15. Date (if applicable)
EQS	S. Luker [signature]	8·30·94
DC	L. Tyler [signature]	8/29/94
EOS	~~M.C. Broussard~~ DWP	
EOS	~~M. Burmeister~~ DWP	
OU2	~~W. Busby~~ DWP	
OU2	M. Kowalewski [signature]	8/30/94

16. Originator's Supervisor (print/sign/date) G.R. Konwinski [signature] 8·30·94

17. Assigned SME/Phone/Page/Location Dennis Pontius/8616/080

18. Cost Center

19. Charge Number

20. Requested Completion Date

21. Effective Date 09/15/94

22. Accelerated Review? Yes • No • (circled: No)

23. ORC Review NOT REQUIRED

24. Responsible Manager (print, sign, date) Dennis Pontius D.W Pontius [signature] 8-25-94

REVIEWED FOR CLASSIFICATION/U
BY NA
DATE NA

PILOT TEST NO. 12 - SCHEDULE OF MEASUREMENTS

	Measurement/Frequency						
	P	Q	T	RH	Rad	OVA	HC
	1/(4-hours)	1/(4-hours)	1/(4-hours)	1/(4-hours)	1/(4-hours)	1/(4-hours)	1/(8-hours)
Location							
APM 17 D	X						
APM 18,23 D/S	X						
APM 19,24 D/S	X						
APM 20,25 D/S	X						
APM 21,22 D/S	X						
APM 26 D	X						
APM 27 D	X						
APM14	X						
APM16	X						
Dilution Air Line	X	X	X	X			
Vapor Manifold	X		X	X			
B-300 Out	X		X	X		X	X
GAC-1 Out (D-400)	X					X	X
GAC-2 Out (D-410)	X					X	X
Stack	X	X	X		X	X	

- APM probe flow rate will be monitored continuously with an in line flowmeter.
- Minimum Duration - 8 hours.
- Total number of gas samples in SUMMA canisters - 5
- An air sample will be taken from the shallow APM probe and deep APM probe choosen as the extraction well.

P = Pressure
Q = Flow rate
T = Temperature
RH = Relative humidity
Rad = Verify that SAAM is operational
OVA = Organic vapor reading
HC = Hydrocarbon sample
D = Deep APM probe in trench
S = Shallow APM probe in trench

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PILOT TEST NO. 13 - SCHEDULE OF MEASUREMENTS

	Measurement/Frequency						
	P	Q	T	RH	Rad	OVA	HC
	1/(4-hours)	1/(4-hours)	1/(4-hours)	1/(4-hours)	1/(4-hours)	1/(4-hours)	1/(4-hours)
Location							
Shallow APM chosen in 12	X	X				X	X
APM 17 D	X						
APM 18,23 D/S	X						
APM 19,24 D/S	X						
APM 20,25 D/S	X						
APM 21,22 D/S	X						
APM 26 D	X						
APM 27 D	X						
APM 14	X						
APM 16	X						
Dilution Air Line	X	X	X	X			
Vapor Manifold	X		X	X			
B-300 Out	X		X	X		X	
GAC-1 Out (D-400)	X					X	
GAC-2 Out (D-410)	X					X	
Stack	X	X	X		X	X	

- APM probe flow rate will be monitored constantly with an in line mass flowmeter.
- Minimum Duration - 8 hours or steady state is achieved.
- Total number of gas samples in SUMMA canisters - 2 (from extracted vapor line)
- Sample analysis turnaround time - 48 hours.

P = Pressure
Q = Flow rate
T = Temperature
RH = Relative humidity
Rad = Verify that SAAM is operational
OVA = Organic vapor reading
HC = Hydrocarbon sample
D = Deep APM probe in trench
S = Shallow APM probe in trench

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PILOT TEST NO. 14 - SCHEDULE OF MEASUREMENTS

	Measurement/Frequency						
	P	Q	T	RH	Rad	OVA	HC
	1/(4-hours)	1/(4-hours)	1/(4-hours)	1/(4-hours)	1/(4-hours)	1/(4-hours)	1/(4-hours)
Location							
Deep APM chosen in 12	X	X				X	X
APM 17 D	X						
APM 18,23 D/S	X						
APM 19,24 D/S	X						
APM 20,25 D/S	X						
APM 21,22 D/S	X						
APM 26 D							
APM 27 D	X						
APM 14	X						
APM 16							
Dilution Air Line	X	X	X	X			
Vapor Manifold	X		X	X			
B-300 Out	X		X	X		X	X
GAC-1 Out (D-400)	X					X	X
GAC-2 Out (D-410)	X					X	X
Stack	X	X	X		X	X	

- APM probe flow rate will be monitored constantly with an in line mass flowmeter.
- Minimum Duration - 8 hours or steady state.
- Total number of gas samples in SUMMA canisters -2 (from extracted vapor line)
- Sample analysis turnaround time-48 hours

P = Pressure
Q = Flow rate
T = Temperature
RH = Relative humidity
Rad = Verify that SAAM is operational
OVA = Organic vapor reading
HC = Hydrocarbon sample
D = Deep APM probe in trench
S = Shallow APM probe in trench